

Abstract

An injection valve (1) is described, with a valve control module (2) and an attached nozzle module (3), which has a nozzle needle (12) that is disposed so that it can move axially in a nozzle body (13). The valve control module (2) adjoins the nozzle module (3) with a throttle plate (14). In the region of an end of the nozzle needle (12) oriented toward the throttle plate (14), an intermediate element is provided, which is pressed against the throttle plate (14) by means of a spring (18) that is disposed between the intermediate element (21) and the nozzle needle (12) and exerts an axial force on the nozzle needle (12) in the closing direction, wherein at least one outlet throttle (24) is provided in the throttle plate (14) and at least one inlet throttle (23) connected to a high-pressure region (9) is provided, both of which throttles feed into a valve control chamber (22). On its side oriented toward the nozzle module (3), the throttle plate (14) has an enclosed raised area (26) that delimits an inner chamber (25), constitutes a delimitation for the valve control chamber (22), and contains the inlet throttle (23) (Fig. 1).